

REMARKS

Claims 1-30 are currently pending in the subject application, and are presently under consideration. Of claims 1-30, claims 9-15 have been withdrawn from consideration. Claims 16-18, 22-24, and 27 are allowed. Claims 1, 19, 21, and 23 have been amended. New claims 31 and 32 have been added. Favorable reconsideration of the application is requested in view of the amendments and comments herein.

Applicant respectfully submits that the due date for response to the second Advisory Action is incorrect according to the second Advisory Action. The Examiner set the date for response to this Action at three months from mailing of the Final Office Action, which would have been May 28, 2006. The second Advisory Action was not mailed until June 14, 2006. Therefore, Applicant requests a one month extension of time so that the filing of this response is considered being timely filed within one month of the mailing day of the second Advisory.

Claim 1 has been amended to recite at least one CAM entry comprising a plurality of CAM fields, the plurality of CAM fields comprising a first field and a second field, the first field being associated with a physical address and the second field being associated with a virtual address, and at least one input selector that enables access to the first field in a physical address mode and the second field in a virtual address mode. None of the cited references, individually or in combination, teach or suggest amended claim 1. Withdrawal of the rejection of claim 1, as well as claims 3-8, 25, and 26 which depend therefrom, is respectfully requested.

Claim 19 has been amended to recite selecting a first CAM field from a memory entry in a physical address mode and a second CAM field from the memory entry in a virtual address mode, the first CAM field comprising a physical address and the second CAM field comprising a virtual address. None of the cited references, individually or in combination, teach or suggest amended claim 19. Withdrawal of the rejection of claim 19, as well as claims 21 and 28-30 which depend therefrom, is respectfully requested.

New claim 31 recites a content addressable memory (CAM) system comprising a first CAM field stored in a first set of a plurality of individual data storage units, a second CAM field stored in a second set of a plurality of individual data storage units, wherein individual data storage units of the first set are interleaved with individual storage units of the second set, a plurality of multiplexers, each multiplexer being associated with an individual data storage unit

from the first set and an individual data storage unit from the second set, the plurality of multiplexers enable access to the first set of a plurality of individual data storage units in a first mode and the second set of a plurality of individual data storage units in a second mode, and a match evaluator that compares the enabled CAM field to a search value.

None of the cited references, individually or in combination, teach or suggest new claim 31. Consideration and allowance of new claim 31, as well as new claim 32 which depends therefrom, are respectfully requested.


CONCLUSION

In view of the foregoing remarks, Applicant respectfully submits that the present application is in condition for allowance. Applicant respectfully requests reconsideration of this application and that the application be passed to issue.

Should the Examiner have any questions concerning this paper, the Examiner is invited and encouraged to contact Applicant's undersigned attorney at (216) 621-2234, Ext. 106.

No additional fees should be due for this response. In the event any fees are due in connection with the filing of this document, the Commissioner is authorized to charge those fees to Deposit Account No. 08-2025.

Respectfully submitted,

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